REMARKS/ARGUMENTS

As the Examiner is aware, this case is part of an original "bulk filing" by Motorola. Special IDS procedures have been approved for these cases, and in this case several 1449's have kindly been considered. A supplemental IDS filing is also included with this filing.

Concerning the obviousness rejections over <u>Guenzer</u>, JP '070, <u>Kaushik</u>, and assorted facts and motivations assumed under a theory of judicial notice, these rejection are now moot in view of the amendment to Claims 149 – 162, specifying a novel and unobvious semiconductor structure, as follows:

a monocrystalline silicon substrate;

a first accommodating buffer layer comprising an amorphous oxide material and a monocrystalline metal oxide selected from the group consisting of alkaline earth metal titanates, alkaline earth metal zirconates, alkaline earth metal hafnates, alkaline earth metal tantalates, alkaline earth metal ruthenates, alkaline earth metal niobates, alkaline earth metal vanadates, alkaline earth metal tin-based perovskites, lanthanum aluminate, lanthanum scandium oxide, gadolinium oxide and mixtures thereof contacting the amorphous oxide material

in Claim 149 (in fact, Claim 149 requires two such structures, the first being in contact with a monocrystalline silicon substrate); and a similar structure in Claim 154.

In this regard, the claims herein have been amended in accordance with discussions held between Applicants and the Patent Office, and these amendments place this case in condition for allowance by describing, in addition to other patentable features, a novel and unobvious semiconductor structure which is, itself, both novel and unobvious – i.e., even the combination of art does not suggest such a structure. Note, for

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example, the requirement that the amorphous oxide material be in contact with the

monocrystalline silicon substrate (Claim 149), and the requirement that the

monocrystalline metal oxide contact the amorphous oxide material (Claims 149 and 154).

These amendments have resulted from a study of the references cited in the various IDSs

in this "bulk filing" and from associated discussions with Examiner Baumeister, SPE

Chaudhury, SPE Flynn, SPE Lee, and others at the PTO.

As noted above, the amendment to the rejected claims places this case in condition for

allowance. Accordingly, early notice to this effect is respectfully requested.

With regard to the double patenting rejection, it has been the practice of the Office to

hold these rejections in abeyance until the indication of allowable subject matter. In this

regard, Applicant is now preparing their response to the double patenting rejections in this

series of cases, which is expected to address all such rejections.

Finally, and to the extent necessary, and particularly with regard to Claims 144-148,

Applicants wish to make of record their disagreement with the taking of official notice

herein, and here present the seasonable challenge noted in the MPEP. See MPEP 2144.03.

Thus, the Office is now requested to support the facts, motivations and inferences used in the

rejections with objective evidence. As the rejections currently stand, the taking of official

notice is so all-encompassing that Applicant is essentially unable to respond.

It may be that the Examiner is prepared to allow claims 149-162, but not Claims 144-

148. If this is the case the Examiner is requested to contact the undersigned.

Respectfully submitted,

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